



# BTP Neo Migration Assessment for Envases Universales de México, S.A.P.I. de C.V.

BTP Foundation , SAP

INTERNAL – SAP and Customers Only



# Agenda

1

Introduction & Management Summary

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2

Migration Readiness Check – Analysis results

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3

Migration Roadmap & Next Steps

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4

Migration Guides – Details

# SAP BTP – Neo environment sunset



**SAP Business Technology Platform, Neo environment will be sunset on December 31, 2028.**



Customers and partners will need to migrate off the SAP BTP Neo environment by December 31, 2028

SAP will collaborate with customers to help minimize the impact of migration, however, **customer involvement in the migration will be necessary**. SAP will share best practices documentation for migration projects and execution, as well as guidance intended to help lower migration costs and commercial impact.

# Management Summary

This report summarizes the analysis that was conducted through the Neo Sunset program for **Envases Universales de México, S.A.P.I. de C.V.**

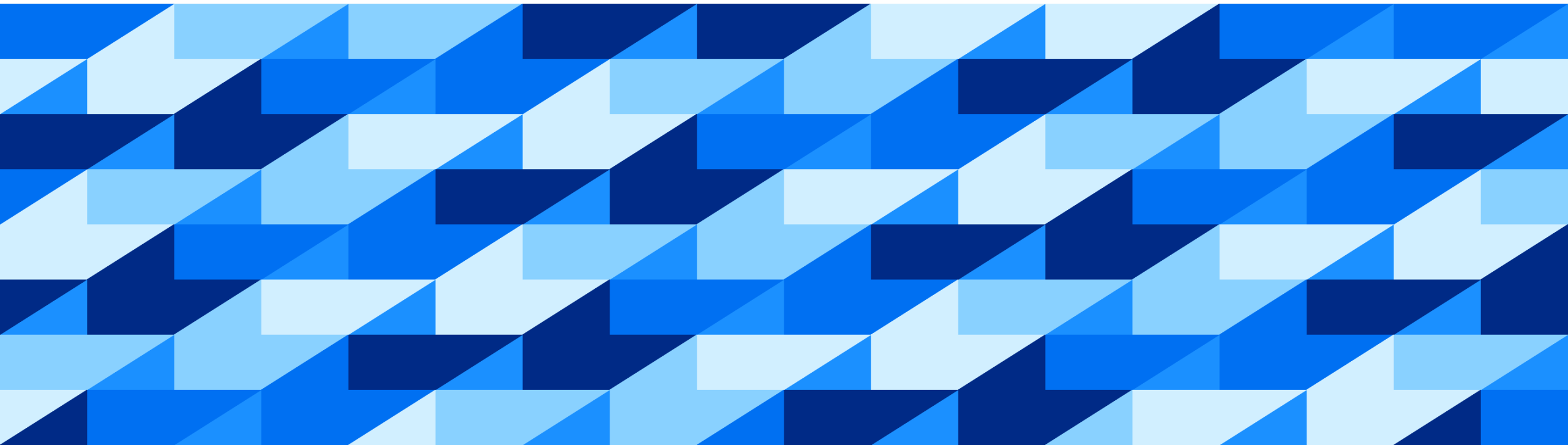
There were in total **11** Neo subaccount(s) observed in **4** Global account(s). The main services observed as being used on Neo in the global account are: **HTML5 Applications, Forms by Adobe, SAP Fiori Cloud, Cloud Integration.**

The overall migration is considered to be high effort and a migration should be planned and executed as soon as possible to ensure migration is complete before the end of life of Neo on 31st December 2028.

**Envases Universales de México, S.A.P.I. de C.V.** should also ensure that the necessary multi-cloud services are commercially available on their account before starting the migration. Commercial discussions should take place with the SAP account team who can support to license the necessary services.

**Envases Universales de México, S.A.P.I. de C.V.** should take this roadmap to evaluate and plan their overall migration project, the Neo sunset migration program can act as a single point of contact throughout the migration journey and are available through [sap.btp.migration@sap.com](mailto:sap.btp.migration@sap.com).

# Migration – Readiness Check



# Migration Readiness Check – Subaccount Overview

For this migration roadmap we analyzed the following subaccounts

| Global Account  | Subaccount  | Services   |
|---|---|--|
| <a href="#">Envases - CPEA</a>                                  | <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | Forms by Adobe, Cloud Integration                      |
| <a href="#">Envases - CPEA</a>                                  | <a href="#">S4H Cloud Platform Integration Productive</a>       | Forms by Adobe, Cloud Integration                      |
| <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | <a href="#">CPI Productive - l700124</a>                        | HTML5 Applications, Cloud Integration                  |
| <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | <a href="#">CPI Test - e700034</a>                              | HTML5 Applications, SAP Fiori Cloud, Cloud Integration |
| <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | <a href="#">Glud &amp; Marstrand A/S</a>                        | -  |

# Migration Readiness Check – Subaccount Overview

For this migration roadmap we analyzed the following subaccounts

| Global Account  | Subaccount  | Services          |
|---|---|-------------------|
| <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | <a href="#">Cloud Platform Integration Productive - l5676</a>   | Cloud Integration |
| <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | <a href="#">Cloud Platform Integration Test - e5661</a>         | Cloud Integration |
| <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | -                 |
| <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | <a href="#">Cloud Platform Integration Productive - l100435</a> | Cloud Integration |
| <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | <a href="#">Cloud Platform Integration Test - e100212</a>       | Cloud Integration |

# Migration Readiness Check – Subaccount Overview

For this migration roadmap we analyzed the following subaccounts

| Global Account  | Subaccount  | Services |
|---|---|----------|
| <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | <a href="#">Envases Universales de México, S.A.P.I. de C.V.</a> | -        |



# Migration Readiness Check – Other Solutions Overview

| Service                                 | Tenants                                       |
|---|---|
| SAP Cloud Integration for data services | DSEU3873 (ID 740793230), L5676 (ID 740491613) |
| SAP Enable Now Cloud                    | h5ecdab20 (ID 741272112)                      |

# Migration Readiness Check – Analysis

Below is a mapping of existing Neo services to the recommended multi-cloud replacement

| Neo Service                             | Multi-Cloud Service                     | Analysis             | Migration Guide                            |
|---|---|----------------------|--|
| HTML5 Applications                      | SAP BTP, Cloud Foundry Runtime (LCM)    | <a href="#">Link</a> | <a href="#">Link</a>                       |
| Forms by Adobe                          | Forms Service by Adobe                  | <a href="#">Link</a> | <a href="#">Link</a>                       |
| Connectivity                            | Connectivity Service                    | <a href="#">Link</a> | <a href="#">Link</a>                       |
| SAP Fiori Cloud                         | N/A                                     | <a href="#">Link</a> | <a href="#">Link</a>                       |
| SAP Cloud Integration for data services | SAP Cloud Integration for data services | <a href="#">Link</a> | <a href="#">Link (planned for Q3 2024)</a> |
| Cloud Integration                       | Integration Suite                       | <a href="#">Link</a> | <a href="#">Link</a>                       |
| SAP Enable Now Cloud                    | SAP Enable Now Cloud                    |                      |  |

# Migration Readiness Check – Analysis

## SAPUI5

The few **elements below require your attention**

**Criticality – MEDIUM**

**Complexity – HIGH**

- SAPUI5 Applications:
  - There are/is 6 SAPUI5 application(s) running on 2 Neo subaccount(s).

### Recommendations

- The applications need to be adapted to support Multi-Cloud environment
- Enable SAP Fiori tools extensions to use [Fiori tools](#) which can be used to migrate the HTML5 applications.
- SAPUI5 and Fiori Launchpad applications can be deployed on Multi-Cloud using one of the following ways:
  - Serving the Application with AppRouter
  - Serving Application with Work Zone and html5-apps-repo
- [SAP Neo to MultiCloud Migration](#)
- [Developing SAPUI5 in SAP Multicloud](#)
- [SAP Application Router](#)
- General Guide is available [here](#) (In this guide Business Application Studio is used as IDE to adapt the apps)

# Migration Readiness Check – Analysis

## SAP Forms by Adobe

The few **elements below require your attention**

**Criticality – MEDIUM**

**Complexity – MEDIUM**

- SAP Forms by Adobe

### Recommendations

- If you already have specific configuration settings or files on your NetWeaver ADS or Neo subaccount, you can migrate them to the SAP Forms service.
- All end points will be the same but there is a changes regarding the binding of the service and authentication implementation.
- [Migration from On-Premise ADS or Neo Subaccount](#)
- Further details of the Multi-cloud service can be found here: [SAP Forms Service by Adobe](#)

# Migration Readiness Check – Analysis

## Connectivity

The few **elements below require your attention**

- Connectivity:
  - There are/is 6 configured tunnel(s): 6 with agent version 2.17.0.
- Destinations

## Recommendations

- Add all the multi-cloud subaccounts as a subaccount into the SCC.
- Use the [copy subaccount feature](#) to copy an existing subaccount configuration in the Cloud Connector to another subaccount in the SCC.
- Configure [Principal Propagation](#) with SCC for multi-cloud subaccounts.
- Once SCC is configured with multi-cloud environment, you'll need to manually export and import the destinations between subaccounts.
- If you have many destinations to export and import you can check the sample automation application that can achieve this at <https://github.com/SAP-samples/btp-destination-service-samples>

# Migration Readiness Check – Analysis

## SAP Fiori Cloud

The few **elements below require your attention**

**Criticality – MEDIUM**

**Complexity – MEDIUM**

- SAP Fiori Cloud

### Recommendations

- In February 2019 SAP decided not to release additional Fiori Cloud applications and content packages for SAP S/4HANA and SAP Business Suite. This is aligned with the revised strategy for SAP Front End Server (FES) architecture, recommending customers to install and run an embedded (on-premise) Frontend Server architecture for SAP S/4HANA and central hub (on-premise) for Business suite.
- Consider the implementation of On Premise Front End server - For more information, see [SAP Fiori Deployment Options and System Landscape Recommendations](#).
  - In summary, the recommendation for the SAP Fiori front-end server (FES) deployment is the following:
    - For SAP S/4HANA, the embedded SAP FES deployment is recommended.
    - For SAP Business Suite scenarios, SAP FES as a central hub is still the recommended deployment.
- [Federate/Integrate](#) the On-premise Fiori apps to Central Launchpad on CF
  - SAP offers advanced UX integration capabilities on SAP Cloud Platform (Cloud Foundry) to help organizations establishing a central entry point and providing users easy access to SAP, custom-built and third-party applications, services and tasks – either from on-premise or cloud.

# Migration Readiness Check – Analysis

## SAP Cloud Integration for data services (CPI-DS)

The **elements below require your attention:**

**Criticality - MEDIUM**

**Complexity - MEDIUM**

- **SAP Cloud Integration for data services (CPI-DS) in Neo**

### Recommendations

- SAP Cloud Integration for Data Services (CI-DS) is designed for time series and master data integration with SAP Integrated Business Planning (IBP). It is included with the SAP IBP application license and will continue to be supported.
- The server component of SAP CI-DS currently operates on the NEO environment, with no plans to discontinue its use for SAP Integrated Business Planning (IBP). CI-DS will transition to SAP BTP Multi-cloud, aligning with the SAP BTP roadmap and leveraging popular hyperscalers.
- Though no public roadmap is available, SAP will assist customers with the migration, aiming to minimize disruption.
- Timelines and detailed plans will be announced in Q3 2024, with updates available through webcasts at the [IBP Engagement Hub](#) / [blog](#).

# Migration Readiness Check – Analysis

## Cloud Integration

[Back to Analysis Slide](#)

The elements below require your attention:

**Criticality - HIGH**

**Complexity - HIGH**

| Global Account   | Subaccount                                      | Tenant                 | Artifacts   |
|--|---|------------------------|---|
| Envases Universales de México, S.A.P.I. de C.V. (ID *5704) | CPI Productive - l700124                        | l700124 (ID 740793319) | 45 Integration Flow, 1 Value Mapping, 1 Java Keystore, 13 Security Materials                                |
| Envases Universales de México, S.A.P.I. de C.V. (ID *5704) | CPI Test - e700034                              | e700034 (ID 740793320) | 40 Integration Flow, 1 Value Mapping, 1 Java Keystore, 24 Security Materials                                |
| Envases Universales de México, S.A.P.I. de C.V. (ID *7239) | Cloud Platform Integration Productive - l5676   | l5676 (ID 740484790)   | 84 Integration Flow, 1 Value Mapping, 1 Certificate-to-User Mappings, 1 Java Keystore, 5 Security Materials |
| Envases Universales de México, S.A.P.I. de C.V. (ID *7239) | Cloud Platform Integration Test - e5661         | e5661 (ID 740484792)   | 91 Integration Flow, 1 Value Mapping, 1 Certificate-to-User Mappings, 1 Java Keystore, 7 Security Materials |
| Envases Universales de México, S.A.P.I. de C.V. (ID *8074) | Cloud Platform Integration Productive - l100435 | l100435 (ID 740685791) | 26 Integration Flow, 3 Value Mapping, 1 Java Keystore, 39 Security Materials, 2 PGP Keys                    |



# Migration Readiness Check – Analysis

## Cloud Integration

The **elements below require your attention:**

**Criticality - HIGH**

**Complexity - HIGH**

| Global Account   | Subaccount                                      | Tenant                 | Artifacts  |
|--|---|------------------------|--|
| Envases Universales de México, S.A.P.I. de C.V. (ID *8074) | Cloud Platform Integration Test - e100212       | e100212 (ID 740685792) | 67 Integration Flow, 2 Value Mapping, 1 Java Keystore, 69 Security Materials, 2 PGP Keys   |
| Envases - CPEA (ID *2384)                                  | Envases Universales de México, S.A.P.I. de C.V. | e800086 (ID 741383839) | 49 Integration Flow, 3 Value Mapping, 1 Certificate-to-User Mappings, 1 Java Keystore, 62 Security Materials, 1 JDBC Driver, 2 PGP Keys, 1 Subsystem |
| Envases - CPEA (ID *2384)                                  | S4H Cloud Platform Integration Productive       | l800249 (ID 741845728) | 47 Integration Flow, 1 Value Mapping, 1 Java Keystore, 47 Security Materials, 2 PGP Keys, 1 Subsystem  |

# Migration Readiness Check – Analysis

## Cloud Integration

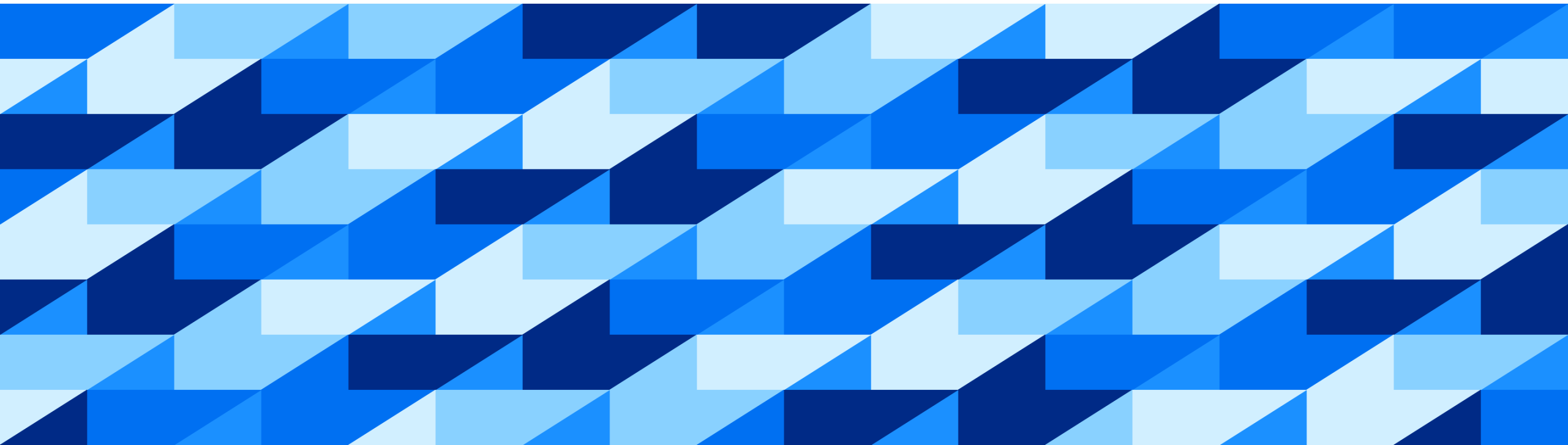
### Recommendations

- In the multi-cloud environment Integration Suite service needs to be enabled. The known SAP CI limitations on BTP multi-cloud are documented under the note: [2752867](#). Its highly recommended to regularly check this note as SAP CI development is constantly working to address this known limitations.
- Versioned **iflows, upto date standard pre-packaged contents, value mapping artefacts** can be migrated using the **SAP CI migration pack**. Ensure artifacts runtime version should match the version of the design time. Additionally execute the readiness check through SAP CI migration tool, More info : [2937549](#)
- Security materials - Migration pack can be used, but **password** should be updated **manually** after the migration. Migration of PGP Keys, known host, Keypairs - need to be **manual** work
- Consumers of iflows need adjustment post migration.
- Side by side migration can be performed without major disruption.
- Additional info [Migrate from Neo to Cloud Foundry – SAP Cloud Integration | SAP Blogs](#)
- Note: Post migration, on the target tenant only the latest version of the package and artefacts will be available, i.e. version revision history won't be migrated to the target tenant.

### Migration Tool capability

|                             |
|-----------------------------|
| Variables                   |
| Certificates to Service Key |
| Data Stores                 |
| Custom Tags                 |
| Custom Public Certificates  |
| User Credentials            |
| OAuth2 Client Credentials   |
| Number Range Objects        |
| Access Policies             |
| Pre-Packaged Content        |
| Custom Content              |
| Value Mapping Values        |

# Migration – Roadmap



# Building Migration Roadmap

## Existing Setup

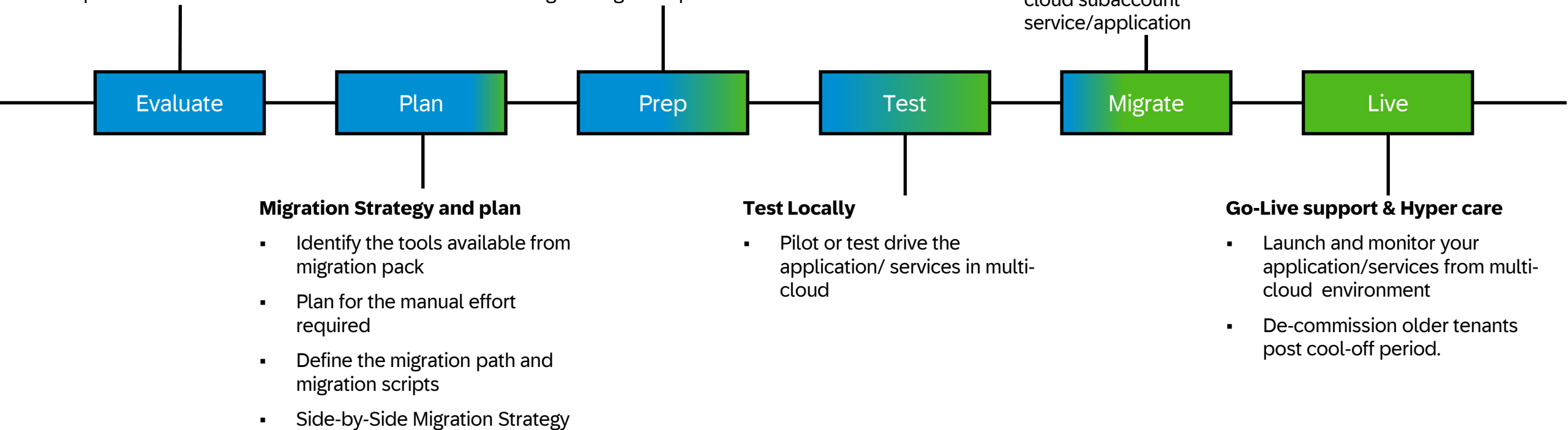
- Identify the services activated and consumed in Neo
- Evaluate the applications and the use to draw migration road map

## Prepare people, data & environments

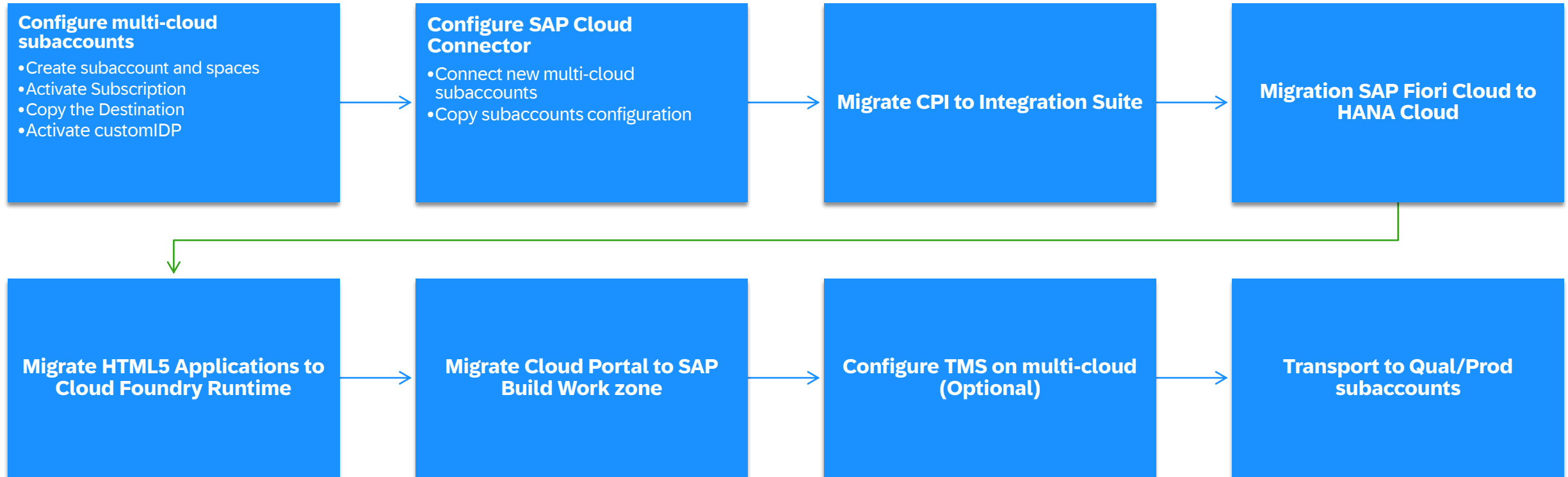
- Set up your multi-cloud environment
- Enable and configure the required services
- Recreate(reconfigure) or Export & Import the objects either manually or using the migration packs

## Adjust consumer & E2E testing

- Adjust your backends or consumer systems to multi-cloud subaccount service/application

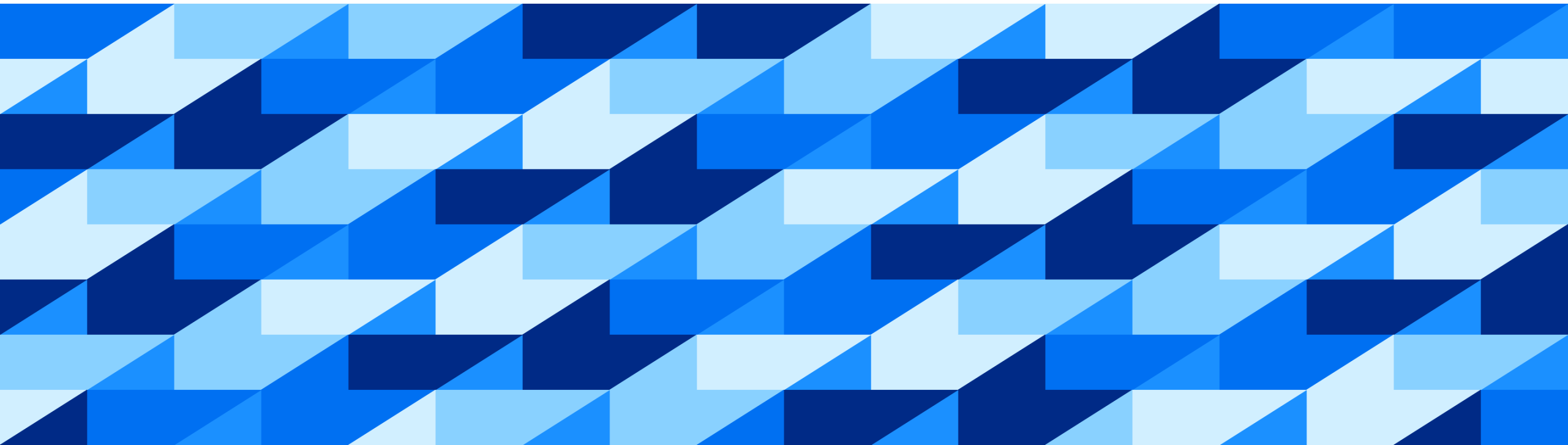


# Migration Plan



- You can plan your migration based on different business scenarios.
- For example, you can set up the multi-cloud environment, migrate your HTML5s and then test instead of doing a full landscape migration and then testing.

# Next Steps



# Migration **Next Steps**

- Create a project plan based on this roadmap incorporating all the services to be migrated
- Identify resources who will complete the execution of the migration and ensure adequate skills and knowledge on migration processes
- Ensure commercial aspects of migration are considered and in place before starting to migrate
- Plan for comprehensive testing and a go-live/cutover window to start using the multi-cloud services and applications productively
- Execute the migration according to the project plan
- [Delete the Neo subaccounts which are no longer in use](#)

# Migration Execution Support

The execution of the migration to multi-cloud is the responsibility of the customer but SAP offers support throughout this process



**SAP Support**

- Migration assessment team can act as '*single point of contact*' for SAP BTP Migration related queries
- We can facilitate checkpoint calls while you execute the migration
- We can provide direct access to SAP development teams in case of any issues with migration tools

For any support requests please reach out to our migration mailbox at [sap.btp.migration@sap.com](mailto:sap.btp.migration@sap.com)





**Q & A**

# Thank you.

Contact information:

BTP Migration Factory

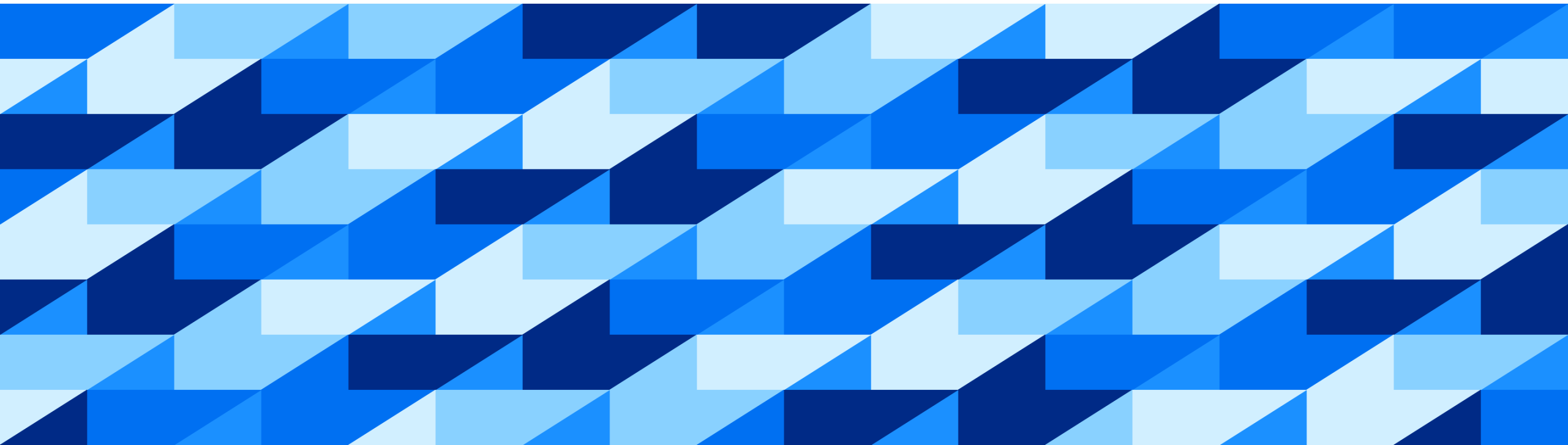
[sap.btp.migration@sap.com](mailto:sap.btp.migration@sap.com)

Shikhar Dang

[shikhar.dang@sap.com](mailto:shikhar.dang@sap.com)



# Migration Guides



**Configure Multi-Cloud**

# Platform & Application Users, Roles and Authorizations

Replicating the Platform & BTP application users, roles and authorizations from NEO to the Multi-cloud environment is a manual process. There is no automated tool for this migration. Please see the following help pages for details on how to configure this on the multi-cloud environment.

- [Building Roles and Role Collections for Applications](#)
- [SAP Authorization and Trust Management Service in the Cloud Foundry Environment](#)
- [Security Administration: Managing Authentication and Authorization](#)

If a custom IDP is used for the BTP-Neo landscape, to replicate it to the BTP multi-cloud all the configurations need to be redone.

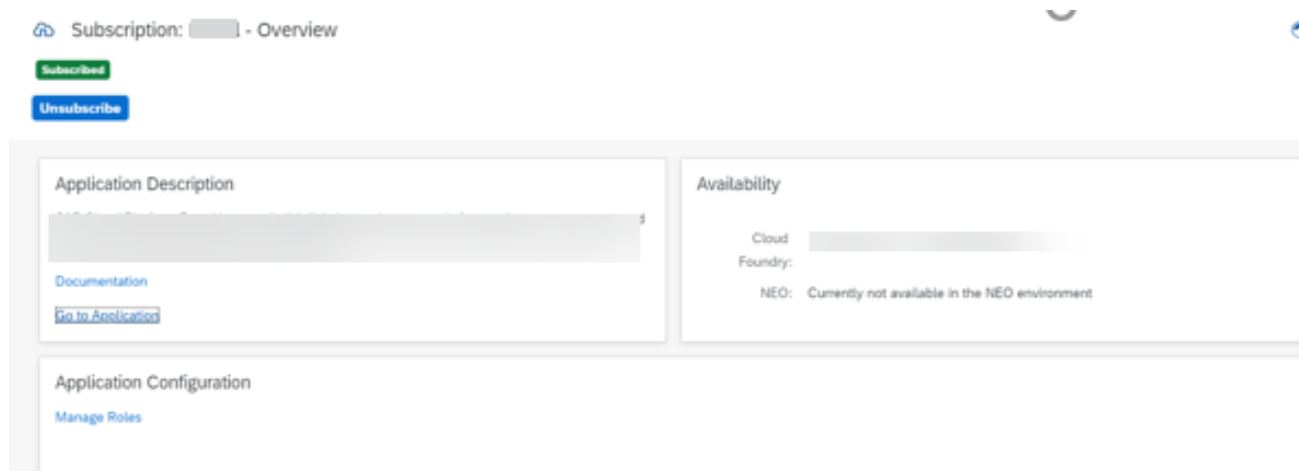
## Create Subaccount and Multi-Cloud Space

1. Log into SAP BTP then your select your region & global account.
2. Choose New Subaccount, pick display & domain name then save.
3. Select the newly created subaccount, choose Enable Cloud Foundry, provide a Cloud Foundry organization name, and then choose Create.
4. Choose Spaces in the navigation bar and select New Space. Enter space name, assign roles and save your changes.

For more information on Role Collections, please see this [guide](#)

# Activate Subscriptions

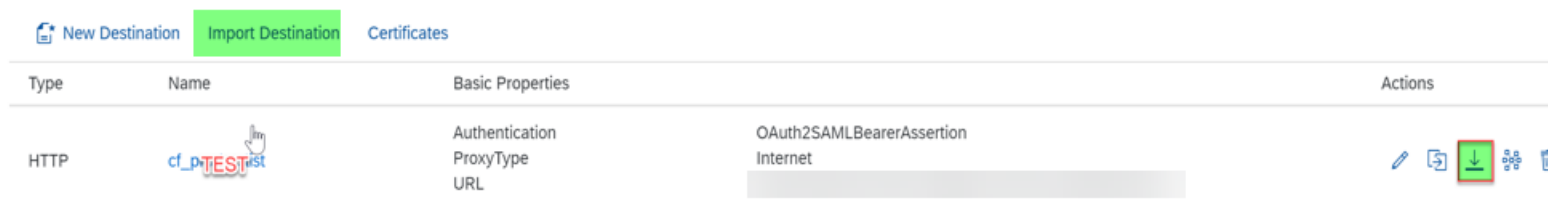
1. Before activating subscriptions, the Service Plan needs to be assigned in the Entitlements tab in your subaccount home page.
2. Once your plan has been assigned, select the Subscriptions tab and search for your chosen service.
3. Select your chosen service and click Subscribe. Once subscribed you then select Go to Application to start using this.








# Copy destinations from NEO to Cloud Foundry – Export & Import

## NEO

1. Navigate to your NEO subaccount homepage and select the Destinations tab.
2. Choose the destination you want imported & click the import button
3. This will generate a file saved to your downloads, this will be the file we will import on the Cloud Foundry side



| New Destination Import Destination Certificates |             |   |   |
|---|-------------|---|---|
| Type  | Name        | Basic Properties  | Actions   |
| HTTP  | cf_p-TESTst | Authentication<br>ProxyType<br>URL<br>OAuth2SAMLBearerAssertion<br>Internet |      |

## Cloud Foundry

1. Navigate to your Cloud Foundry subaccount homepage and select the Destinations tab.
2. Choose Import Destination
3. Upload the file generated from the export procedure

If you have many destinations to export and import you can check the sample automation application that can achieve this at <https://github.com/SAP-samples/btp-destination-service-samples>



# HTML5 Applications

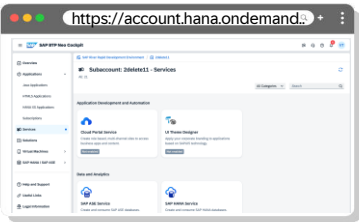
# HTML5 Application Migration Steps

The HTML5 application migration process is comprised of various steps, from migrating the application code itself till migration of associated authorizations roles and destinations.

1. The e2e migration process is described [here](#).
2. Specific steps on migrating Fiori applications can be found [here](#).
3. A blog illustrating the process can be found [here](#).

# Front-end Applications Migration (Neo → CF)

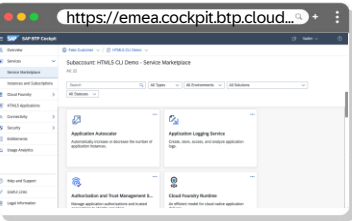
## BTP Neo Cockpit Services



- Cloud Portal
- Web IDE

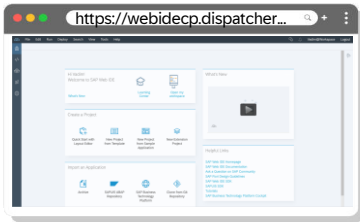


## BTP Multicloud Cockpit Service Marketplace



- WorkZone
- Business Application Studio

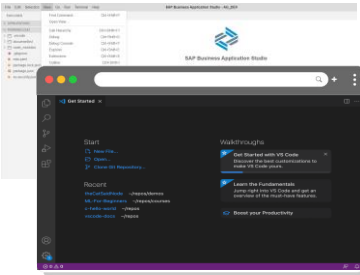
## WebIDE



- Helium Apps
- Java Apps



## BAS / VSCode / ...



- HTML5 Apps
- CAP apps

## API



## CLI



## Cockpit



- Git
- manifest.json
- neo-app.json
- mta.yaml
- SAML, Roles



## API



## CLI



## Cockpit



- HTML5 app host
- xs-security.json
- manifest.json
- xs-app.json
- mta.yaml
- OAuth, scopes

## UI

## Destinations

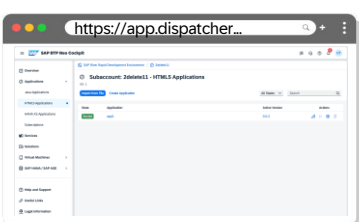
## AuthZ

## UI

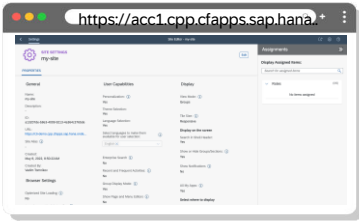
## Destinations

## AuthZ

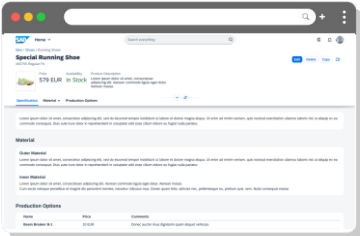
## Helium (Dispatcher)



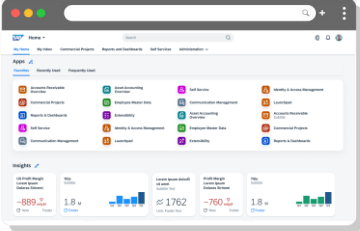
## WorkZone / Managed AppRouter



## Standalone App



## Launchpad / WorkZone



# High Level Migration Steps

The SAPUI5 application must be adopted to comply with the new BTP CF environment and the new development tools provided in Business Application Studio or VS Code.

These are the high level steps

# Key Configuration Changes

|                      | Neo  | Cloud Foundry   |
|----------------------|--|---|
| Hosting              | Neo Git + Helium / Dispatcher                        | Own Git + HTML5 Repo + WorkZone                                     |
| Runtime URLs         | https://<appId>-<acId>.<HTML5NeoDomain>/index.html   | https://<subdomain>.<wzdomain>/<sapCloudService>.<appId>/index.html |
| Routing              | neo-app.json   | xs-app.json   |
| Destinations         | HTML5 Application/Subaccount Level                   | Subaccount/Service Instance Level                                   |
| Security             | SAML, Roles + Client Side Permissions (neo-app.json) | OAuth, XSUAA scopes (xs-security.json) or IAS                       |
| Solutions (mta.yaml) | com.sap.hcp.html5                                    | com.sap.application.content   |

# Appendix

# Angular based HTML5 app migration

Fiori and UI5 Single Page Applications (SPAs) are using hash-based (aka fragment-based) navigation exclusively to switch between application views, meaning navigation is agnostic to URL path. But most modern UI frameworks, including Angular (React, Vue other examples) are using history-based (aka push-state) routing for navigation by default and are sensitive to the path structure, which may be incompatible with the one required by HTML5 Repo consumed via AppRouter in Cloud foundry.

It is possible to use arbitrary Angular apps with AppRouter and HTML5 Repo, but this may require custom development to change routing mechanism, which goes beyond capabilities of any migration tool.

Depending how Angular application routing was implemented in the application at the first place, the migration may be either smooth and easy or complicated.

In Summary :

1. In cloud foundry, from approuter/html5-repo perspective there is no limitation for using Angular. But SAP Workzone/FDC don't support non Fiori projects.
2. html5-repo needs a manifest.json file with [app.id/app.version](#), also for Angular projects
3. Avoid uploading Angular framework files into html5-repo → it might lead to exceeding the 100 MB per instance limitation. Such files should be retrieved from CDN (like it is done for sapui5 core files).

# Forms by Adobe



# SAP Forms by Adobe

Exporting the application from NEO

## Recommendations

- The migration can be done by customers on their own without help from SAP, if they are on CPEA
- Introduction, Forms service by Adobe (Neo) [here](#)
- For CPEA customer: Enabling Forms service in (new) subaccount [here](#)
- Changing connectivity URL in ABAP system [here](#)
- Changing settings in Cloud Connector [here](#)
- Changing destination (ABAP, Cloud Connector) in BTP Subaccount [here](#)
- Adsrestapi – connection set up at new account [here](#)
- Adsrestapi – create oAuth client [here](#)
- Downloading customer fonts and other ADS configuration from “old” account to “new” account [here](#)
- Downloading/Uploading Form Templates store in the Forms service via REST API [here](#)
- Downloading/Uploading Form Templates store in the Forms service via using the UI [here](#)

# Connectivity **Services**

# Configure SAP Cloud Connector

Configure SAP CF account into the relevant SAP cloud connector.

1. On the SAP cloud connector go to the Connector Tab.
2. Add the CPI CF sub account by filling out the required details.
3. In the subaccount choose the CPI CF account which is added in step 2 and press Connect button to establish a connection to the CPI CF. The SCC connection will now reflect in the CF CPI sub account which can be verified.
4. Now navigate to Cloud to on-premise button and under Access Control select Import System Mappings & select your SAP BTP Neo Sub account as the source to import the end points to CF account in SCC

| ACCESS CONTROL                     |              |               |              |          |               |         |
|------------------------------------|--------------|---------------|--------------|----------|---------------|---------|
| Mapping Virtual To Internal System |              |               |              |          |               |         |
| Status                             | Virtual Host | Internal Host | Check Result | Protocol | Back-end Type | Actions |

Import System Mappings

Source: ☐ File ☒ Subaccount

Subaccount:

Overwrite: ☐

Include Resources: ☒

Import Cancel

# Fiori Cloud

# Fiori Cloud – Central Launchpad Configuration

## Migration

Administrators have two options for integration of cloud and On-premise Fiori to Central Launchpad:

- Manual integration of single applications using templates for common UI technologies such as SAPUI5, Web Dynpro ABAP or SAP GUI for HTML. Web applications can also be integrated using the generic (dynamic) URL launcher. You can configure applications to open in-place (with embedded UI using iFrames) or in new tab.
- Advanced content federation: SAP products can serve as content providers by exposing selected business content including roles, applications, and related meta data. The data exchange is based on a Common Data Model (CDM) format, which is used to generically describe the content structure. Each provider system is responsible for exposing its content according to CDM

Check [SAP Fiori Deployment Options and System Landscape Recommendations](#) for further details on [supported platforms and requisites](#).

# Cloud Integration

# SAP Cloud Integration Migration strategy

## Side-by-side migration



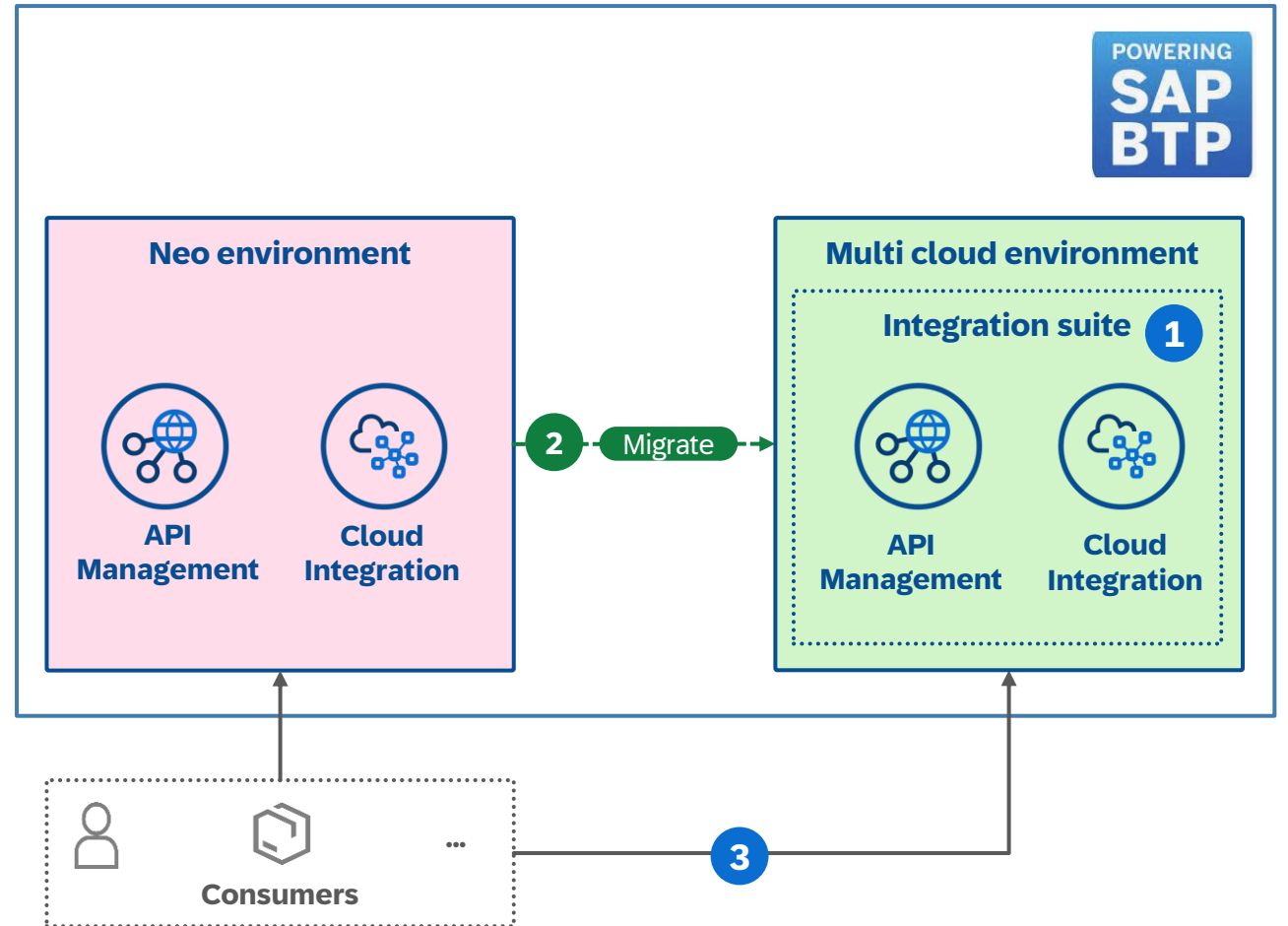
### SOLUTION

- Provision a new SAP Integration Suite tenant
- Migrate integration artifacts from source system to target system
- Connect your consumers to target system



### BENEFITS

- Take advantage of a self-driven migration to upgrade your application in active use
- Move your consuming applications in your phase
- Minimize downtime for your consuming applications



# SAP Cloud Integration Migration

## Set up target environment

- For migrating an existing CPI subscription that you have in the Neo environment to another CPI subscription in the public cloud infrastructures (hyperscalers) within the Multi-Cloud environment following steps to be followed:
- Provision the CPI tenant in the Multi-Cloud environment by following the guide on [help.sap.com](https://help.sap.com) or [SCN Blog](#)
- Optionally enable Enterprise messaging for JMS queue by following the [help.sap.com](https://help.sap.com)
- Export & import the required destinations from SAP BTP Neo to SAP BTP Multi-Cloud sub account
- Configure the SAP Cloud connector for the newly created SAP BTP Multi-Cloud sub account and import the exposed backend URLs from the SAP BTP Neo sub account into the SAP BTP Multi-Cloud sub account in SCC
- For configure only iflows from pre-packaged contents, custom iflows & Value mappings, number range objects use the migration pack to export & import, For modified pre-packaged contents manually export & import iflows from SAP BTP Neo to SAP BTP Multi-Cloud.
- Use the migration pack for copying the certificates from SAP BTP Neo to SAP BTP Multi-Cloud. Create User / OAuth / SFSF / Open Connectors Credentials in SAP BTP Multi-Cloud, manually import Key Pairs, Secure Parameters, PGP Public / Secret Keyrings, Known Hosts from your back up copy.
- Adjust the backends to the new CPI application SAP BTP Multi-Cloud sub account, perform end to end testing.
- Reconfigure the transport management service between the Dev/QA/PROD tenants.



# SAP Cloud Integration Migration (Contd.)

## Activities for CPI migration

Identify the iflows which will be migrated to the Multi-Cloud CPI subaccount.

### Manual Activities for CPI migration

Then on Multi-Cloud CPI application, manually configure the below security materials which are required for the iflow execution post migration.

(i)User credential passwords (ii)Secure parameters (iii)Key pairs (iv)PGP keys (v) Trusted systems(known\_hosts)

### Use of Migration pack for CPI

- Download Postman from <https://postman.com>
- Download CPI Migration Accelerator from [SAP Note 2937549](#)
- Based on your org decision execute the CPI migration pack for selectively migrating the CPI artifacts from SAP BTP Neo to SAP Multi-Cloud. The details of migration pack is available under the Migration Pack = Tooling and Documentation section in this report.

### Adjustments on consumer system

- In order to establish the connectivity between your Multi-Cloud CPI tenant and your consumer systems the backend systems needs adjustments in the configuration. You need to manually perform the steps required to establish a successful connection.
- In case, if you plan to use the Custom Domain on Multi-Cloud CPI tenant and retain the earlier domain names, then it may reduce certain manual steps for establishing the connectivity. Further details are available in the SAP Note :[2937549](#)

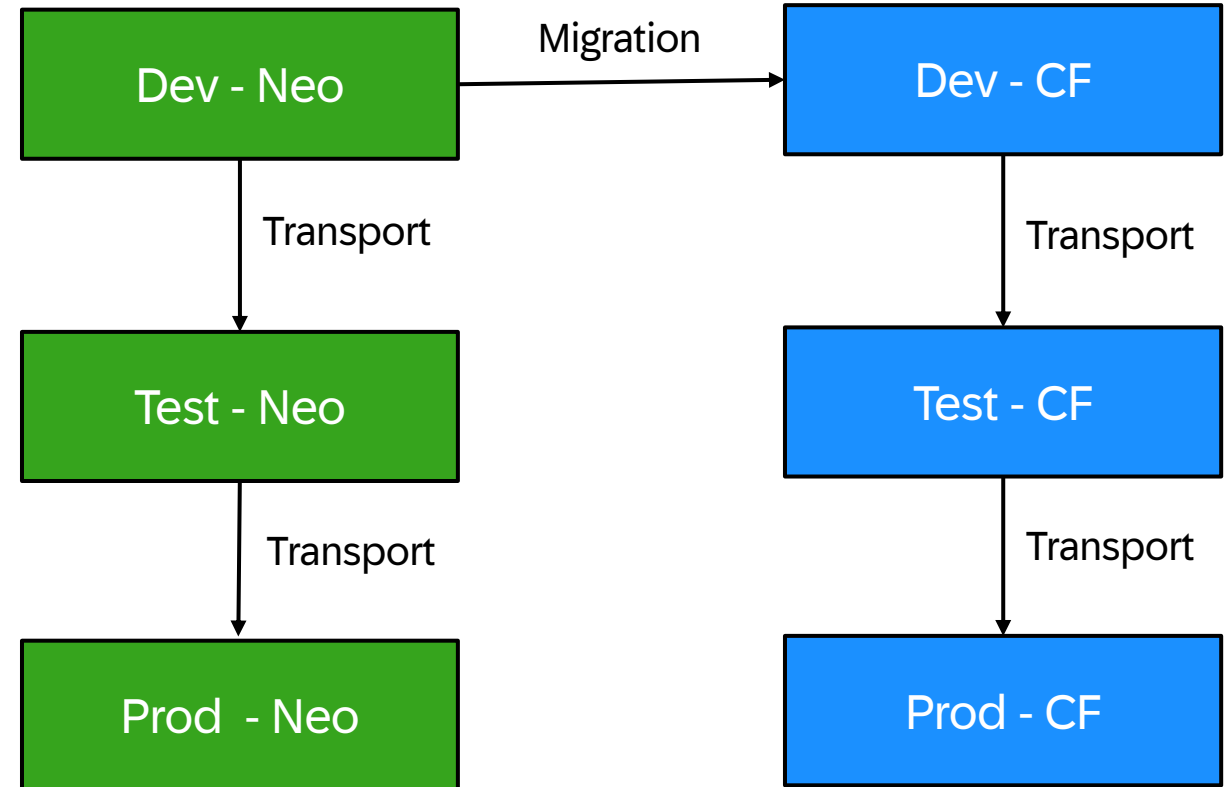
# SAP Cloud Integration Migration of Multi-Tier Landscapes

## How to migrate DEV/TEST/PROD tenants



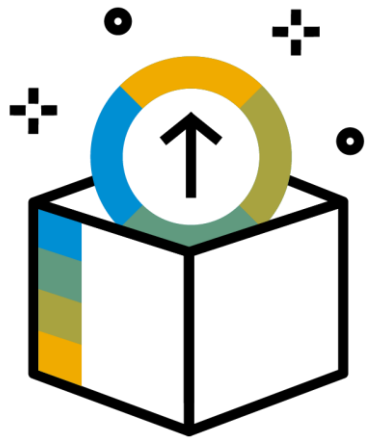
### BEST PRACTICE

- Pause integration flow development during migration to avoid double-maintenance
- Dev-CF tenant:  
use migration accelerator to clone Dev-Neo
- Test/Prod-CF:  
use standard transport from the previous CF tier  
use migration accelerator if necessary



# SAP Cloud Integration Migration Accelerator

Fast-track your move to multi-cloud



**Accelerator for  
migration of design-  
time artifact**

## In scope for the accelerator

**Integration content:** pre-packaged and custom iflows / value mappings including configuration, custom tags

**Security materials:** public certificates, user credentials metadata, access policies

**Runtime data:** number ranges, local and global variables, data store

## Out of scope for the accelerator\*

**Integration content:** custom adapters

**Sensitive security materials:** passwords, key pairs, custom domain

**Runtime data:** monitoring data, JMS queues data, tenant sizing, message store, partner directory, historical version of the iflow/packages, principle propagation, platform and application user migration,

*\* User action required*

# SAP Cloud Integration Migration (Contd.)

## Additional Information

- Email for questions regarding BTP migrations: [sap.btp.migration@sap.com](mailto:sap.btp.migration@sap.com)
- BTP Migration Guides: <https://help.sap.com/viewer/CP-Migration-Guide>
- List of restrictions in Cloud Foundry: [SAP Note 2752867](#)
- SAP Cloud Platform Integration Suite Roadmap: [link](#)
- How to setup a SAP CI tenant in Cloud Foundry: [help.sap.com](#), [Tutorial](#), [blog](#)
- SAP CI Migration Tool : [blog](#)
- SAP Integration Suite Free Tier Tenant [blog #1](#) [blog #2](#)
- Authentication and Authorization setup in Cloud Foundry:
  - Client Certificate Authentication setup: [blog](#), [link #1](#), [link #2](#)
  - Information about SAP CI roles in CF: [link](#)
- Cloud Foundry data centers:
  - CF Data Centres and their IP addresses: [link](#)
  - Trusted CAs: [link](#)

# Transport Management

# Transport Management Service (Recommended)

## Overview

- SAP Cloud Transport Management Service (TMS) manages application transport and content transport within a landscape on SAP BTP.
- Completely cloud based.
- Flexible tool to transport various types of content e.g. MTA, XS, .zip files.
- This is subscription based so once entitlements are in place, this can be searched and subscribed.
- The TMS is used by configuring:
  - **Transport Destination:** Used to address and manage destinations mapped in Multi-Cloud> Destinations
  - **Transport Node:** Represent endpoint on source/target, e.g. Multi-Cloud subaccount.
  - **Transport Route:** Used to connect transport nodes.

You then use the **Import Queue** which has the file to be transferred and can schedule the movement between transport nodes. For more information on this, please see this [guide](#).

# Subaccount Deletion

# SAP BTP Capabilities – Deletion of Subaccount

## Feature Set B – [SAP Help](#)

1. In the cockpit, go to the Account Explorer page of your global account.
2. In the account hierarchy, locate the subaccount that you want to delete.
3. In the Actions context menu of the subaccount, choose Delete.
4. Once you've checked that it is safe to permanently remove the subaccount and its data, if such data exists, then you can approve the deletion operation in the **Delete Subaccount with Content** dialog box.
5. If the subaccount contains data, then you're also given the option to use the **force-delete** option, which deletes the subaccount and all its data for you.

**NOTE:** It is your responsibility to confirm that the subaccount is safe to delete before using the force-delete option. If you cannot check the content of the subaccount, you can get the subaccount reviewed by other qualified members of your organization.

## Feature Set A - [SAP Help](#)

1. In the cockpit, navigate into the subaccount that you want to delete.
2. Choose Delete Subaccount and confirm the operation.
  - For more Information on Deletion of subaccount, follow the link [here](#).
  - [Removal of Custom domain](#).
  - Removal of subaccount by [CLI](#).

See also: [3305900 - Deleting Subaccount in BTP NEO Environment](#)



- Prerequisites (Feature Set B)
  - Global Account Administrator role
  - Any unused custom domain and corresponding SSL hosts and certificates must be removed
- Prerequisites (Feature Set A)
  - Global Account Administrator role
  - Subaccount Security Administrator role
  - The subaccount doesn't contain any active subscriptions, service instances, brokers, or platforms
  - Any unused custom domain and corresponding SSL hosts and certificates must be removed



**Knowledge in Multi-Cloud**

# Knowledge in Multi-Cloud Environment



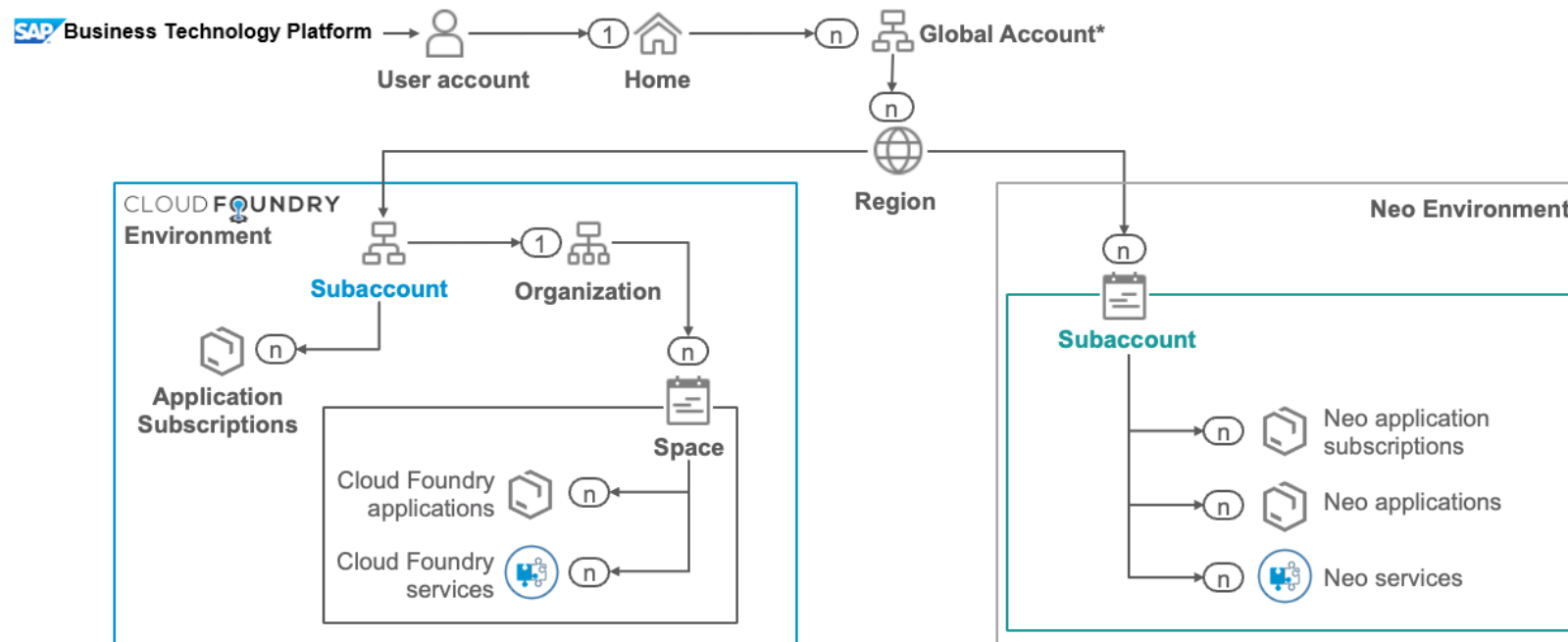
- **Before starting migration familiarize your developers with the multi-cloud environment and development concepts**
- Plan for a future-proof target **account structure** to avoid additional migration in future
- Develop new functionality on Multi-Cloud Environment instead of Neo (best practice!)
- Use migration packs along the journey

## **Resources**

- [What Is the Multi-Cloud Foundation | SAP Help Portal](#)
- [Cloud Foundry Environment | SAP Help Portal](#)
- [Best Practices for SAP BTP | SAP Help Portal](#)
- [Developing Full-Stack Applications Using SAP Business Application Studio | SAP Learning](#)
- [Getting started with SAP Cloud Application Programming Model | SAP Learning](#)
- [Introducing Cloud Security on SAP Business Technology Platform | SAP Learning](#)
- [Building Side-by-Side Extensions on SAP BTP | SAP Learning](#)
- [Delivering Side-by-Side Extensibility based on SAP BTP, Kyma runtime | SAP Learning](#)
- [Discovering DevOps with SAP BTP | SAP Learning](#)

# Account Structure

- Account Structure between Neo and multi-cloud is different and consideration should be given to this when planning migration and target landscape setup
- Accounts may be structured differently to incorporate the concept of spaces or introduce central/shared tenants for services such as integration suite.



# Migration Packs

# What's in a Migration Pack?

SAP will offer migration packs for

- HANA, Portal, APIM, CPI, HTML 5 Apps, Mobile, Core capabilities (destinations, security, account model , ...)

## **The Migration Handbook**

- The migration handbook has to describe precisely what the customer has to do in all 4 phases to migrate the respective service successfully. The Handbook will be kept up-to-date with the latest findings out of executed customer migrations.

## **How-to Guides, Best Practice Guides and FAQs**

- Every service will need specialized approaches dependent on the customer specific implementation. A continuously growing set of Assets is documenting and publishing this approaches to keep the discovery effort for the customer.

## **Migration Tooling**

- A set of documented scripts automating as many tasks as possible required to carry out the migration

# Neo Sunset program: Free migration assessment for SAP BTP customers

## Setting you on the right path to migrate your Neo implementation to a modern, multi-cloud foundation

## Additional Information / Migration Packs:

Home > SAP Business Technology Platform (SAP BTP) > Migrating from the Neo Environment to the Multi-Cloud Foundation (Cloud Foundry and Kyma) > Migrating Your Scenario Components: Migration Packs

# Migrating from the Neo Environment to the Multi-Cloud Foundation (Cloud Foundry and Kyma)

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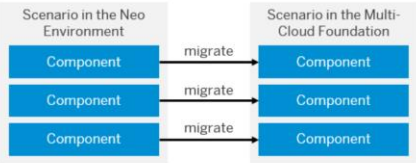
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- Migrating from the Neo Environment to the Multi-Cloud Foundation (Cloud Foundry and Kyma)
- What Is the Multi-Cloud Foundation
- Why You Should Migrate from the Neo Environment to the Multi-Cloud Foundation
- Getting Started with Your Migration
- Migrating Your Scenario Components: Migration Packs**

## Migrating Your Scenario Components: Migration Packs

Find information on how to migrate the components of your scenario from the Neo environment to the multi-cloud foundation.

Migrating a scenario from the Neo environment to the multi-cloud foundation implies migrating all components involved:



```

graph LR
    subgraph "Scenario in the Neo Environment"
        C1[Component]
        C2[Component]
        C3[Component]
    end
    subgraph "Scenario in the Multi-Cloud Foundation"
        D1[Component]
        D2[Component]
        D3[Component]
    end
    C1 -- migrate --> D1
    C2 -- migrate --> D2
    C3 -- migrate --> D3
            
```

Component Migration

The following table shows you where to find migration packs for the individual applications, services, and integrations.

**Links to Specific Migration Guides**

| Component                       | Links to Migration Information   |
|---------------------------------|--|
| SAP Document Management service | <a href="#">Migrating from Neo Document Service to SAP Document Management Service</a><br>Migrate the SAP Document service in the Neo environment to SAP Document Management service in the Cloud Foundry environment without any data loss.   |
| SAP Workflow Management         | <a href="#">Migrate SAP Workflow Applications to Cloud Foundry Environment</a><br>Migrate workflow applications with SAPUI5 components as Task UIs to the Cloud Foundry environment.   |
| SAP Mobile Services             | <b>Migrating Mobile Applications:</b> <ul style="list-style-type: none"> <li><a href="#">Migration Overview</a><br/>Migrate from SAP Mobile Platform to SAP Mobile Services, or from the Neo to the Cloud Foundry environment.</li> <li><a href="#">Mobile Services Migration from NEO to CF</a><br/>Migrate an Android mobile application from the SAP BTP Neo to the Cloud Foundry environment.</li> </ul> |

## Migration Packs

# Service Specific Migration Packs

| Service Component               | Guide & Tools             |
|---------------------------------|---------------------------|
| SAP Cloud Integration           | <a href="#">Available</a> |
| API Management                  | <a href="#">Available</a> |
| HTML5 Applications              | <a href="#">Available</a> |
| SAP Cloud Portal Service        | <a href="#">Available</a> |
| Mobile Services                 | <a href="#">Available</a> |
| Data Quality Services           | <a href="#">Available</a> |
| SAP Document Management Service | <a href="#">Available</a> |
| SAP Forms Service by Adobe      | <a href="#">Available</a> |
| SAP Open Connectors             | <a href="#">Available</a> |
| SAP Workflow Management         | <a href="#">Available</a> |
| SAP HANA Service                | <a href="#">Available</a> |

[Migration Packs](#)